

CLAIMS

1. A method of depositing a MCrAlY-coating (6) on the surface (5) of a single crystal (SX) or directionally solidified (DS) article (1), the method comprising the steps of coating the article (1) only at a local area with the MCrAlY-coating (6) by an electroplated method.
2. The method according to claim 1, wherein during step (a) of the claim 1, the article (1) is coated locally with a γ/γ' or with a γ/β coating.
3. The method according to claim 1 or 2, wherein the step of coating the article (1) only at a local area with the MCrAlY-coating (6) by an electroplated method is repeated at different local areas on the surface (5) of the article (1).
4. The method according to any of the claims 1 to 3, wherein during the step of coating the article (1) only at a local area with the MCrAlY-coating (6) by an electroplated method the areas not to be coated are masked with a masked material.
5. The method according to claim 4, wherein the areas not to be coated are masked with wax or organic polymers.
6. The method according to any of the claims 1 to 5, wherein different areas are coated with different MCrAlY-coatings, the MCrAlY-coatings are selected according to the required properties in said areas in respect to one or a combination of oxidation, corrosion, thermal mechanical fatigue (TMF).
7. The method according to any of the claim 1 to 8, wherein the method is used as a repair process for a used MCrAlY-coating (6).

8. The method according to any of the claims 1 to 9, wherein a gas turbine article (1) such as blades or vanes is coated.